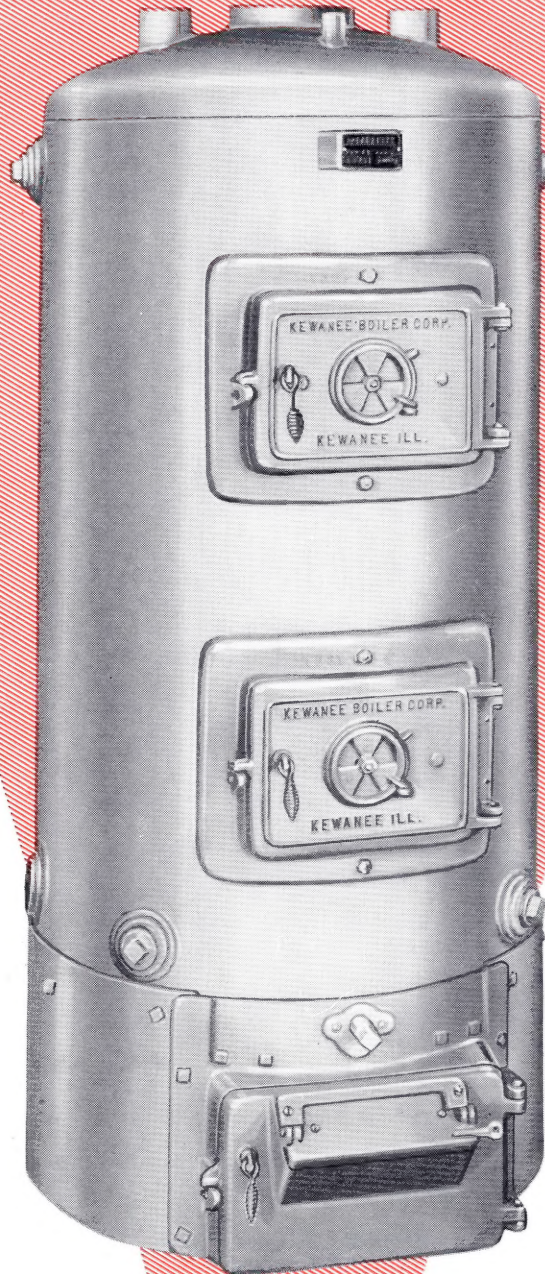


KEWANEE



GARBAGE

BURNER

ALL-WELD

WATER HEATING

Catalog GW-95a

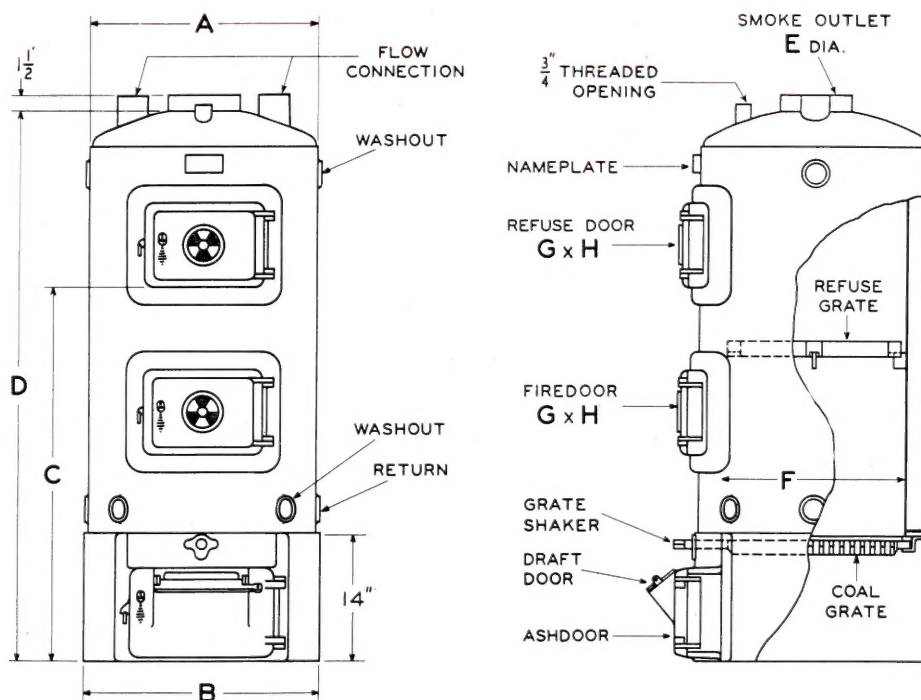
KEWANEE GARBAGE BURNER

...

Rated to Heat 165 to 700 Gallons of Water 50° per Hour

A.S.M.E. CODE

**Welded
Steel Series
G018-G032**



100 POUNDS WORKING PRESSURE

150 POUNDS HYDROSTATIC TEST

SPECIFICATIONS and MEASUREMENTS

Kewanee Welded Garbage Burner

GARBAGE BURNER NUMBER.....	G018 GWTHB	G022 GWTHD	G027 GWTHG	G032 GWTHJ
CODE WORD.....				
CAPACITY HOT WATER 50° RISE.....GALS. PER HR.	165	250	400	700
CAPACITY REFUSE CHAMBER, ONE CHARGE.....BU.	1	1 1/2	2 1/2	3 1/2
TEST PRESSURE.....LB.	150	150	150	150
WATER WORKING PRESSURE.....LB.	100	100	100	100
A—SIZE OF GARBAGE BURNER—SHELL DIA. X HT.....IN.	18 x 42	21 x 42	25 x 48	31 x 54
B—BASE DIAMETER.....IN.	19	22	26	32
C—HEIGHT TO BOTTOM OF REFUSE DOOR.....IN.	39 1/2	39 1/2	43 1/2	43 1/2
D—HEIGHT SHELL AND BASE.....IN.	56	56	62	68
E—SMOKE OUTLET DIAMETER.....IN.	6	6	8	8
F—FIREPOT DIAMETER.....IN.	13 1/4	16	20	24 1/4
G X H—DOOR OPENING, HT. X WIDTH—IN SHELL.....IN.	8 x 7 1/2	8 x 7 3/4	9 1/4 x 10 1/4	9 1/4 x 10 1/2
—IN FRAME.....IN.	8 x 10	8 x 10	9 x 12 1/2	9 x 12 1/2
SIZE FLOW.....IN.	2-1 1/2	2-1 1/2	2-2	2-2 1/2
SIZE RETURN.....IN.	2-1 1/2	2-1 1/2	2-2	2-2 1/2
SIZE CLEANOUT PLUGS.....IN.	5-1 1/2	5-1 1/2	5-2	5-2
GRATE AREA.....SQ. FT.	0.96	1.25	2.1	3.2
OUTSIDE SURFACE TO COVER.....SQ. FT.	15	18	25	35
APPROXIMATE SHIPPING WEIGHT—HEATER SHELL.....LB.	355	400	600	990
—BASE AND CASTINGS.....LB.	220	275	325	400
—TOTAL.....LB.	575	675	925	1390

ALL ABOVE CAPACITY RATINGS ARE BASED ON RAISING TEMPERATURE OF WATER 50 DEGREES IN ONE HOUR

KEWANEE **Steel Welded** GARBAGE BURNER

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THE Kewanee Garbage Burner in its newly simplified format of welded steel is styled to supply 165 to 700 gallons of hot water per hour at low cost and with minimum attention. Extra Economy comes from putting the garbage and rubbish combustibles to work helping to heat Service Hot Water, instead of wasting them all in the process of drying and burning.

Saving on the fuel bill for Hot Water always has been a wishful economy but in times when conserving the Nation's resources becomes a patriotic duty, supplementing the combustion heat of the usual Hot Water fuel with heat units from burning refuse is truly 'making a virtue of necessity.'

PURPOSEFUL DESIGN

Wherever garbage and rubbish accumulate Kewanee Welded Garbage Burners aptly play the dual "role" of destroying a menace to health while making it useful. Within its capacity range of 165 to 700 gallons this Kewanee Commodity can always be depended upon to heat plenty of water piping hot for the Domestic Service or in larger volume with Storage Tank reserve for whenever or whenever there may be sudden and steady demand for Hot Water. Best of all in so doing it salvages the potential heat of refuse in process of destruction by adding "fuel to the flames."

FUEL VALUE of GARBAGE & RUBBISH

One ton of garbage, when dry, is found to contain the equivalent of 200 pounds of good coal. A Kewanee Water Heating Garbage Burner by converting the wasteful nuisance into valuable fuel may effect a *saving from 30 to 50 per cent* in the cost of heating water. The capacity range of the Garbage Chamber is from 1 to 3½ bushels in this welded series.

YEARS of EXPERIENCE

The Kewanee Boiler Works has made Water Heating Garbage Burners continuously for over thirty years. The unbroken sales record of this product proves a pretty general recognition of the value of this principle of using separate grates so as to keep a clear fire below for igniting the waste matter above, instead of letting wet refuse piled directly on top of a single grate fire smother it into a smoky smoldering mass.

EASE of OPERATION

No skill whatsoever is needed in operating Kewanee Water Heating Garbage Burners. A small fire kindled in the usual way on the lower shaking grate will burn bright and clear in the combustion space. It first dries out into odorless combustible matter the trash dumped through the upper fire door onto the garbage chamber incinerator grate.

Both fire doors are full-size so the same boiler scoop shovel can be used for either.

This upper grate is nothing more than a deep grid with ample air spacing. It is practically unbreakable, there's nothing to get out of order.

Keep outer ring of grate vents clear so the hot flames can by-pass the garbage, dry it out and destroy odors. Obnoxious garbage is easily disposed of even when wet if wrapped in old newspapers to keep it from choking off the draft above the fire.

Heat TWICE as Much

All Kewanee Water Heaters are rated on their ability to raise water temperatures *50 degrees per hour*. Other water heater ratings are generally based on raises of only 25 degrees. So, size for size, Kewanee Water Heaters *actually do twice the work*.

WATER WORKING PRESSURE 100 LBS.

All sizes withstand working pressures up to 100 Pounds per Square Inch and each is tested hydrostatically to 150 Pounds per Square Inch which means Kewanee Garbage Burners carry the highest water pressures of any city. They are built in sturdy steel with stout castings to stand rough use.

"Clean out" plugs located advantageously give clear access inside the shell of the heater.

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WATER STORAGE TANKS

Continuous service of piping hot water is best supplied by Kewanee Water Heaters when the water storage tank has a CAPACITY 50 PER CENT GREATER than the hourly rating of the heater. Regular Sizes of Standard and Extra Heavy Kewanee Steel Tanks are listed on the fourth page.

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BASE and LOWER ROCKING GRATE

The Garbage Burner Steel Base is newly designed, its construction improved, the height is maintained to give ample clearance below the grates. The heater shell rests on a cast ring attached to the circular side rolled out of heavy plate.

Heavy rocking grate bars work in lugs below the ring bolted one end so each bar is readily removable separately but cannot shake out.

The front ash door and frame are heavy castings designed to stand rough usage and provide easy access for cleaning out ashes.

Draft opening on ash door is fitted with a balanced flap connecting to regulator for automatic draft control.



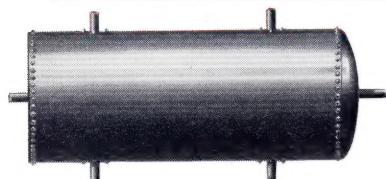
SAVES FUEL HEATING HOT WATER



Quick Shipment a Kewanee tradition. Trainload production may be scheduled thru our shops at short notice and overnight delivery of Tanks from stock may be made by Truck as well.

KEWANEE Steel Tanks, Riveted and Welded

Standard and Extra Heavy



Riveted Hot Water Storage Tank



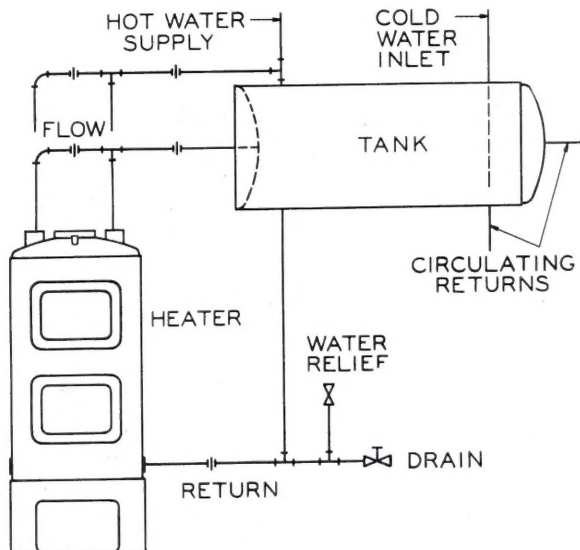
Welded Hot Water Storage Tank

Standard Water Storage Tanks are tested to 115 pounds hydrostatic pressure. For use where water working pressure does not exceed 75 pounds. Can be used either horizontally or vertically. Manholes, handholes, and coils furnished only when ordered.

Extra Heavy Tanks are tested to 150 pounds hydrostatic pressure, for use where working pressure does not exceed 100 pounds. Prices and specifications on application for

Specifications				Approx. Ship. Wt., Lbs.			
Capacity Gals.	Size, In. Ft.	Openings In.	Size Coil Pipe, In.	Riveted		Welded	
				Std.	Ex. Hvy.	Std.	Ex. Hvy.
66	20x4	1½	4-1	270	.....	230	.....
85	20x5	1½	4-1	310	.....	280	.....
100	24x4	1½	4-1¼	330	.....	290	.....
120	24x5	1½	4-1¼	380	390	340	340
140	24x6	1½	4-1¼	440	450	390	390
150	30x4	2	4-1¼	430	.....	390	.....
180	30x5	2	4-1¼	500	520	450	470
220	30x6	2	4-1¼	560	590	520	530
250	30x7	2	4-1¼	630	660	580	590
295	30x8	2	4-1¼	700	720	640	660
315	36x6	2	4-1½	700	920	650	790
365	36x7	2	4-1½	780	1030	720	880
420	36x8	2	4-1½	870	1160	800	980
525	36x10	2	4-1½	1030	1380	950	1170
430	42x6	2	4-1½	890	1140	820	990
500	42x7	2	4-1½	980	1260	910	1100
575	42x8	2	4-1½	1070	1400	1000	1210
720	42x10	2	4-1½	1250	1660	1180	1430
865	42x12	2	4-1½	1430	1910	1360	1650
1000	42x14	2	4-1½	1620	2180	1540	1870
750	48x8	3	.....	.....	1690	.....	.....
940	48x10	3	.....	.....	1960	.....	.....
1130	48x12	3	.....	.....	2250	.....	.....
1300	48x14	3	.....	.....	2570	.....	.....
1500	48x16	3	.....	.....	2860	.....	.....
1700	48x18	3	.....	.....	3150	.....	.....

tanks of any size for every purpose and pressure, both plain and galvanized. All Kewanee Black Steel Tanks are furnished with preservative coating of spray paint.



PIPING CONNECTIONS TO KEWANEE STORAGE TANK

For most favorable circulating conditions between the storage tank and water heater the tank should be placed as high above the hot water flow outlet as headroom permits.

The cold water supply enters the storage tank at top opening, opposite the hot water inlet end, through a pipe that extends to within 6 in. of the bottom. This connection directs the cold water toward the bottom of the tank and prevents cooling the hot water in reserve at the top.

The return circulating line between tank and heater should be connected to the bottom of the tank at opposite end from where the cold water enters.

The hot water flow line from the heater may be connected to the storage tank either at the end or on top to increase the circulation head.

Circulation may be improved if a riser is piped from both top outlets of the heater to the flow line. The return may connect at the back of the heater or to any other of the bottom openings.